Rest Style Large MeAsurement Platform Protocol

Draft-liu-lmap-rest-02

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Outline

➢ REST Style LMAP Protocol (Update from -01 version)

➢ Reply to LMAP Protocol Selection Criteria
     [draft-starkcarey-lmap-protocol-criteria-01]

➢ Next Step

Background

➢draft-liu-lmap-rest-00 was presented in IETF#90
- Defines a REST style LMAP protocol, based on information model draft 00 version
- Update the draft to align with information model 02 version

➢draft-liu-lmap-rest-01 was presented in IETF#91
- Control Protocol Updated
- Running Code & Demo

REST Style LMAP Protocol (Update from -01 version)

➤Add Protocol Implementation Consideration
- Control Session

Controller	→	MA
Client		Server

- Report Session

Collector	←	MA
Server		Client

- Advantage of REST

➤ Add description for Criteria

Reply to LMAP Protocol Selection Criteria

- ➢ Control Protocol Criteria
  - ❑ Mandatory Criteria
    - • [CP-MUST-1] -[Draft-liu-lmap-rest-02]--section 4.1

    - • [CP-MUST-2] -[Draft-liu-lmap-rest-02]--section 4.2

    - • [CP-MUST-3] The credential employed for authentication by HTTPs

    - • [CP-MUST-4] we use JSON which can be extended by adding more information mode. (hoping this can be adding in information mode draft as well)

Reply to LMAP Protocol Selection Criteria

> Control Protocol Criteria
> ❑ Comparative Criteria
>> ✓ [CP-DIFF-1] 1 exchange in sending a complete instruction
>> ✓ [CP-DIFF-2] 1 exchange in sending a complete instruction
>> ✓ [CP-DIFF-3] Yes
>> ✓ [CP-DIFF-4] JSON and REST over HTTPs
>> ✓ [CP-DIFF-5] Header contain about 100bytes (host\content type \accept)
>> ✓ [CP-DIFF-6] Header contain about 100bytes (host\content type \accept)
>> ✓ [CP-DIFF-7] Rest widely used. Meantime, Chinacache has been used it as a trial
>> ✓ [CP-DIFF-8] Test tools for JSON. More is under developed
>> ✓ [CP-DIFF-9] Yes on Github
>> ✓ [CP-DIFF-10] JSON and HTTPs, also we developed open source program
>> ✓ [CP-DIFF-11] Yes
>> ✓ [CP-DIFF-12] Yes
>> ✓ [CP-DIFF-13] JSON

Reply to LMAP Protocol Selection Criteria

➢ Report Protocol Criteria
 ❑ Mandatory Criteria
  ✓ [RP-MUST-1]-- [Draft-liu-lmap-rest-02]--section 5.1.

  ✓ [RP-MUST-2] the credential employed for authentication by HTTPS

  ✓ [RP-MUST-3] we use JSON which can be extended.(hoping this can be adding in information mode draft as well)

Reply to LMAP Protocol Selection Criteria

- ➢ Report Protocol Criteria
  - ❑ Comparative Criteria
    - ✓ [RP-DIFF-1] TCP
    - ✓ [RP-DIFF-2] Yes
    - ✓ [RP-DIFF-3] 1
    - ✓ [RP-DIFF-4] Yes
    - ✓ [RP-DIFF-5] Yes
    - ✓ [RP-DIFF-6] Yes
    - ✓ [RP-DIFF-7] about 100 bytes
    - ✓ [RP-DIFF-8] REST is used widely
    - ✓ [RP-DIFF-9] Test tools for JSON, certification program
    - ✓ [RP-DIFF-10] Yes
    - ✓ [RP-DIFF-11] JSON and HTTPs, also we developed open source program
    - ✓ [RP-DIFF-12] JSON

Next Step

➢ Adding YANG Data model and Restconf soon.

➢ Proposed as LMAP configuration and reporting protocol solution.

Thank you!

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